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As Built Drawing in Architecture

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About the Study

As built drawings are used in construction projects to monitor the various modifications that occur during the construction of a structure from the initial design blueprints. These drawings, often known as "as built," are a vital element of new construction, remodeling, and maintenance. Although some call these "as builds," the proper phrase is "as constructed," because they refer to the project as it was completed. It's critical to understand what has built drawings are used for, what information they contain, how they're generated, and the difference between as built drawings and record drawings before beginning any construction job.

Accurate blueprints are essential for the success of any construction project. As the contractor encounters challenges with materials, the site, or regulatory authorities throughout the course of a project, the building's characteristics are likely to alter. As-built drawings are essential for commercial building projects in particular to record these changes and retain an accurate representation of the structure as it now exists. For new construction, renovation projects, and building upkeep, as-built drawings are useful.

New Construction

Contractors will experience several obstacles while constructing a new structure that previously existed only on paper, and will need to alter their building designs in response. These drawings document the modifications as they occur during construction so that an accurate picture of the structure is available when it is finished.

Renovation projects

Before beginning a reconstruction project, it's critical to have a thorough grasp of the present state of the structure. Working with current plans is therefore critical for a safe and effective refurbishment.

Building maintenance

Small improvements and modifications will be done during the life of a structure. The maintenance staff of a building is responsible for updating drawings to reflect any modifications to the structure, ensuring that an accurate picture of the structure is available at all times.

Any modifications to the following aspects must be included in order to have accurate and useful as constructed drawings:

- Changes in the position of doors, window casings, plumbing, millwork, and any other critical components should be noted.
- When making adjustments to the original plan, keep track of all variances in materials utilized.
- Dimensions: Make a list of any changes to the dimensions of any construction elements.
- List any changes made to the installation of building components such as HVAC, electricity, or windows.
- Fabrications: Keep track of any changes made to the fabrications, such as columns, beams, and handrails.

It's important to note that as-built can also include additional documentation, handwritten comments, and photographs, as well as satellite images. It is critical to know who is accountable for generating as-built drawings and what procedure to utilize while doing so in order to produce quality as-built drawings. It's crucial to note that today's as-built drawings are frequently generated using construction technology and software such as AutoCAD, which allows all stakeholders to access up-to-date building plans at all times.

The designs for a project are usually created by the contractor in charge of construction. Although an architect may be engaged on occasion, it is less frequent because they are not on site every day to monitor the construction process. Because the contractor is on site during the construction of the project, they are able to make regular adjustments to the building designs as changes occur.

It's useful to remember the following steps while generating as-built drawings:

- Color Coding: A standard color legend is used on as-built drawings, with red indicating removed things, green indicating new items, and blue indicating special information.
- Scale: It's critical that any changes to drawings maintain the same scale and dimensions as the originals.
- Dates: Any changes to the building designs should be recorded and accompanied by supplementary paperwork if necessary.
- Obstacles: All difficulties encountered along the route, whether caused by natural elements, governmental bodies, or anything else, should be documented in addition to the designs.
- Physical feature: Take specific note of any modifications to elevations, slopes, or other physical features that were discovered or modified throughout the building process when working with earthmoving equipment.
- Underground utilities: Make a note of the precise locations of any subsurface utilities that are installed throughout the building process.